

11.9 DUAL PRF PROCESSING WITHIN THE BARON PROCESSOR SUITE

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The world of weather forecasting is rapidly changing driven by exponential advances in radar signal and data processing technologies. Recent years have seen the development of the Baron Services Processor Suite which introduced new ways of collecting, storing, manipulating and transmitting radar data in addition to radically transforming the way we conduct and organize weather science. This paper will illustrate how the processor suite combats the doppler dilemma challenge by employing novel hybrid architectural concepts and effectively blending traditional signal dual PRF processing techniques with innovative technologies like CLEAN-APT^M for superior data quality (CLEAN-APTM ©2009 Board of Regents of the University of Oklahoma). A brief description of the implemented algorithm followed by a performance discussion of data cases under a variety of weather conditions will be presented.